

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: N. Morishita et al. : Art Unit:  
Serial No.: To Be Assigned : Examiner:  
Filed: Herewith :  
FOR: COOLING METHOD FOR :  
ASSEMBLED BATTERIES

Continuation Of:

Applicant: N. Morishita et al. : Art Unit: 1745  
Serial No.: 08/939,299 : Examiner: J. Crepeau  
Filed: September 29, 1997 :  
FOR: COOLING METHOD FOR :  
ASSEMBLED BATTERIES

PRELIMINARY AMENDMENT

Assistant Commissioner for Patents  
Washington, D.C. 20231

S I R :

Prior to examination, please amend the above-identified application as follows:

IN THE TITLE:

Please delete the title in its entirety and substitute therefor:

BATTERY SYSTEM

IN THE SPECIFICATION:

Please insert the following the paragraph on page 1, line 5:

This application is a Continuation of Serial No. 08/939,299, filed September 29, 1997, which is a Continuation-In-Part of U.S. Patent No. 5,747,186.

IN THE CLAIMS:

Please cancel claims 1-3 and add new claims 4-7 as follows:

- 1           4.     (Newly Added) A battery system comprising:  
2                 a first battery module; and  
3                 a second battery module;  
4                 said first battery module and said second battery module  
5 arranged to receive flow of cooling medium in parallel;  
6                 said first battery module and said second battery module each  
7 comprised of a plurality of cells,  
8                 said cells in said first battery module held together, said cells in  
9 said second battery module held together,  
10                said cells in said first battery module held together independently  
11 of said cells in said second battery module;  
12                at least two of said cells in said first module including convex  
13 portions which coincide to form an opening through which said cooling  
14 medium flows;

15                   at least two of said cells in said second module including convex  
16 portions which coincide to form an opening through which said cooling  
17 medium flows.

1                   5.     (Newly Added) A battery system according to claim 1  
2 wherein said convex portions are arranged for flow of said cooling medium  
3 vertically towards positive and negative terminals arranged on respective tops  
4 of said cells.

1                   6.     (Newly Added) A battery system according to claim 1  
2 wherein said convex portions are arranged for flow of said cooling medium  
3 horizontally relative to positive and negative terminals arranged on respective  
4 tops of said cells.

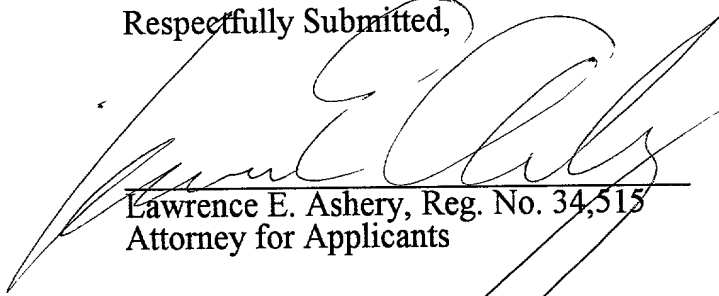
1                   7.     (Newly Added) A battery system according to claim 4,  
2 wherein said first and second battery module are held to each other.

09924530-080304

REMARKS

Claims 4, 5, 6 and 7 have been added. Claim 4 is supported by Figure 3, Figure 5, Figure 7 and Figure 8 of the original application. Claim 5 is supported by Figure 3. Claim 6 is supported by Figure 5. Claim 7 is supported by Figure 3. No new matter has been added.

Respectfully Submitted,



Lawrence E. Ashery, Reg. No. 34,515  
Attorney for Applicants

LEA/ap  
Dated: August 3, 2001

Suite 301  
One Westlakes, Berwyn  
P.O. Box 980  
Valley Forge, PA 19482-0980  
(610) 407-0700

The Assistant Commissioner for Patents is  
hereby authorized to charge payment to Deposit  
Account No. **18-0350** of any fees associated  
with this communication.

**EXPRESS MAIL** Mailing Label Number: EL854576243US

Date of Deposit: August 3, 2001

I hereby certify that this paper and fee are being deposited, under 37 C.F.R. § 1.10 and with sufficient postage, using the "Express Mail Post Office to Addressee" service of the United States Postal Service on the date indicated above and that the deposit is addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231.



Kathleen Libby

0921630-080301

VERSION WITH MARKINGS TO SHOW CHANGES MADE

TITLE:

[COOLING METHOD FOR ASSEMBLED BATTERIES]  
BATTERY SYSTEM

SPECIFICATION:

Please insert the following the paragraph on page 1, line 5:

This application is a Continuation of Serial No. 08/939,299, filed  
September 29, 1997, which is a Continuation-In-Part of U.S. Patent No.  
5,747,186.

CLAIMS:

Claims 1-3 have been cancelled.

Claims 4-7 have been added.

0921630.030301  
T0E080.0E9T2260